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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,398		03/31/2006	Ian Taylor	. 5176	7428
35969	7590	12/14/2006		EXAMINER	
<b>JEFFREY</b>	M. GRE	ENMAN	BABIC, CHRISTOPHER M		
BAYER PH 400 MORG		EUTICALS COF E	ART UNIT	PAPER NUMBER	
WEST HA	VEN, CT	06516	. 1637		

DATE MAILED: 12/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summany	10/574,398	TAYLOR ET AL.
Office Action Summary	Examiner	Art Unit
	Christopher M. Babic	1637
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed , the mailing date of this communication. D (35 U.S.C. § 133).
Status .		•
1) Responsive to communication(s) filed on		•
	action is non-final.	•
3) Since this application is in condition for allowan		secution as to the morits is
closed in accordance with the practice under E	•	
closed in accordance with the practice under 2	x parte Quayle, 1905 C.D. 11, 40	
Disposition of Claims		
4) Claim(s) 1-14 is/are pending in the application.	•	
4a) Of the above claim(s) is/are withdraw		•••
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		*
7) Claim(s) is/are objected to.		
8) Claim(s) 1-14 are subject to restriction and/or e	election requirement.	•
,		
Application Papers		
9) The specification is objected to by the Examine	r.	
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the I	Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	ected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
D'. '		
Priority under 35 U.S.C. § 119		·
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.	
2. Certified copies of the priority documents	s have been received in Applicati	on No
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage
application from the International Bureau	ı (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list	of the certified copies not receive	ed.
	•	
		•
Attack		·,
Attachment(s)  1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)
2) Notice of Preferences Cited (P10-692)  Notice of Draftsperson's Patent Drawing Review (PT0-948)	Paper No(s)/Mail Da	
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal F	atent Application
Paper No(s)/Mail Date	6)	

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## **DETAILED ACTION**

### Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, drawn to method for providing a patient diagnosis for lung cancer.

Group II, claim(s) 4-6, drawn to method for distinguishing between normal and disease tissues.

Group III, claim(s) 7-12, drawn to method to monitor the response of a patient being treated for lung cancer by administering a anti-cancer agent and a method for identifying a compound useful for the treatment of lung cancer.

Group IV, claim(s) 13, drawn to a oligomer array for distinguishing between normal and disease tissues.

Group V, claim(s) 14, drawn to a polypeptide array for distinguishing between normal and disease tissues.

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The inventions listed as groups I-VI do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

An array comprising two or more probes corresponding to two or more genes listed within claim 13 was known in the art at the time of invention (Brennan, U.S. 5,474,796). Brennan teaches the formation of all possible permutations of the 10-mer oligonucleotide (col. 9, ex. 4, for example).

The said method cannot therefore be considered a special technical feature, as lack of unity rules hold that a feature known to a person of ordinary skill in the art makes no advance over the prior art.

2. This application further contains claims directed to the following patentably distinct combination of sequences.

## Groups I-VI

Each combination of SEQ ID NOs comprises patentably distinct combination of sequences.

Each combination is patentably distinct because they comprise a group of unrelated sequences, and a further restriction is applied to the group. For an elected group, Applicants must further elect a **single** combination of nucleotide sequence. For example, Applicants must elect a single combination (i.e., 20, 100, 200 or 366 genes) of genes and identify the genes of the combination in the claims. Applicant is further

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advised to select a combination of sequences that include any sequences Applicant believes to be free of the prior art. If one elected sequence is found to be allowable, any permutation of combination comprising the SEQ ID NO would be allowable.

The above restriction practice is supported by MPEP 803.04, example (c), wherein the section states:

"Applications containing only composition claims reciting different combination of individual nucleotide sequences... will be subject to a restriction requirement.

Applicants will be required to select one combination for examination. If the selected combination contains ten or fewer sequences, all of the sequences of the combination will be searched. If the selected combination contains more than ten sequences, the combination will be examined following the procedures set forth above for example (B)"

Example (B) states that the presence of one novel and nonobivious sequence within the

combination will render the entire combination free of prior art (MPEP 803.04).

Therefore, Applicants must elect a <u>single combination</u> of polynucleotide (or gene) sequences to which the claimed combination comprises. Further, Applicants are advised to identify the sequences (or genes) (within the combination) which are least likely to be found in the prior art, for the examination to be facilitated.

3. This application further contains claims directed to the following patentably distinct Restriction Subgroups of the claimed invention. After election of one of the Groups above, Applicant is required to also elect a restriction subgroup. This is not a

species election. Applicant will be required to cancel non-elected subject matter upon indication of allowable subject matter.

## Groups I-IV

The probe array (e.g. claim 2) and polypeptide array (e.g. claim 3) each comprise a patentably distinct subgroup.

The probe array (e.g. claim 2) and polypeptide array (e.g. claim 3) do not share a special technical feature because the structures of polynucleotide and polypeptides are different and thus there is no unity of invention between the two groups.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed Subgroup consisting of a method utilizing **either** a probe array or polypeptide array for prosecution on the merits to which the claims shall be restricted.

Applicant is advised that a reply to this requirement must include an identification of the restriction subgroup that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election. Should applicant traverse on the ground that the Restriction Subgroups are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the Restriction Subgroups to be obvious variants or clearly admit on the record that this is the case. In either instance, if the

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examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised

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that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Babic whose telephone number is 571-272-8507. The examiner can normally be reached on Monday-Friday 7:00AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 571-272-0782. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher Babic

**Patent Examiner** 

AU 1637

11/30/06

PRIMARY EXAMINER